

AMENDMENTS TO THE CLAIMS

1. (CURRENTLY AMENDED) An anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~, wherein: ~~characterised in that~~
 - in its longitudinal direction it has several ribs ~~(2)~~ whereby the space between two adjacent ribs ~~(2)~~ forms a groove ~~(3)~~,
 - the cross-section of the anti-buckling device ~~(1)~~ fills the cross-section of a duct in such a way that the duct walls ~~(9)~~ lie on the ribs ~~(2)~~ at a buckling point ~~(8)~~ but cannot penetrate into the grooves ~~(3)~~,
 - the grooves ~~(3)~~ remain open and permeable for fluids when the anti-buckling device ~~(1)~~ is bent,
 - fluids can circulate through the grooves ~~(3)~~ of the anti-buckling device ~~(1)~~ and, if necessary, transmit pressure forces.
2. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 1, ~~characterised in that~~ wherein in their longitudinal direction the ribs ~~(2)~~ are interrupted and thereby the grooves ~~(3)~~ are connected to each other by way of transverse connections ~~(10)~~.
3. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 2, ~~characterised in that~~ wherein the interrupted ribs ~~(2)~~ are formed as knobs ~~(11)~~ and the grooves ~~(3)~~ with the transverse connections ~~(10)~~ form an intermediate space ~~(12)~~.

4. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 1, ~~characterised in that~~ wherein it is formed in such a way that at least one plastic pipe ~~(13)~~ can be inserted in it.
5. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 4, ~~characterised in that~~ wherein the at least one plastic pipe ~~(13)~~ is reinforced.
6. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to ~~any one of~~ claims claim 1 to 5, ~~characterised in that~~ wherein the envelope ~~(4)~~ essentially corresponds to the cross-section of the duct ~~(6)~~ and the buckling point.
7. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 6, ~~characterised in that~~ wherein the envelope ~~(4)~~ is lenticular.
8. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to ~~any one of~~ claims claim 1 to 5, ~~characterised in that~~ wherein the envelope ~~(4)~~ essentially corresponds to the cross-section of the duct ~~(6)~~ along the entire length of the anti-buckling device ~~(1)~~.

9. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 8, ~~characterised in that~~ wherein the envelope ~~(4)~~ is lenticular in the middle of the anti-buckling device and becomes continuously more circular in both directions.
10. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim ~~any one of claims 1 to 5~~, ~~characterised in that~~ wherein its cross-section and the envelope ~~(4)~~ exhibit multiple rotational symmetry.
11. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 1, ~~characterised in that~~ wherein the thin-walled duct ~~(6)~~ is a hose ~~(14)~~ and the anti-buckling device ~~(1)~~ is deformable and can adjust itself to deformations in the cross-section of the hose.
12. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(14)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 1, ~~characterised in that~~ wherein the thin-walled duct ~~(6)~~ is a core ~~(15)~~ worked into a woven material and the anti-buckling device ~~(1)~~ is deformable can adjust itself to changes in the cross-section of the core ~~(15)~~ induced by a pressure p .
13. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 1, ~~characterised in that~~ wherein it consists of an elastic material.

14. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 1, ~~characterised in that~~ wherein it consists of an elastomer.
15. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 13 ~~or 14~~, ~~characterised in that~~ wherein the elastic material has a hardness of between 20 and 80 Shore.
16. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 15, ~~characterised in that~~ wherein the elastic material has a hardness of between 20 and 60 Shore.
17. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(1)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 1 ~~or~~ 2, ~~characterised in that~~ wherein the ribs ~~(2)~~ are applied to the inside of a duct wall 9.
18. (CURRENTLY AMENDED) The anti-buckling ~~Anti-buckling~~ device ~~(11)~~ for thin-walled fluid ducts ~~(6)~~ according to claim 3, ~~characterised in that~~ wherein the knobs ~~(11)~~ are applied to the inside of a duct wall 9.